TABLE OF CONTENTS LIST

APPLICANT: YAESU MUSEN CO., LTD.

FCC ID: K66FT-817

TEST REPORT CONTAINING:

EXHIBITS CONTAINING:

APPLICANT: YAESU MUSEN CO., LTD.
FCC ID: K66FT-817

TEST EQUIPMENT LIST

1._X_Spectrum Analyzer: HP 8566B-Opt 462, S/N 3138A07786, w/ preselector HP 85685A, S/N 3221A01400, Quasi-Peak Adapter HP 8565OA, S/N 3303A01690 & Preamplifier HP 8449B-OPT H02, S/N 3008A00372 Cal. 10/17/99
2._X_Biconnical Antenna: Eaton Model 94455-1, S/N 1057
3.___Biconnical Antenna: Electro-Metrics Model BIA-25, S/N 1171
4._X_Log-Periodic Antenna: Electro-Metrics Model EM-6950, S/N 632
5.___Log-Periodic Antenna: Electro-Metrics Model LPA-30, S/N 409
6._X_Double-Ridged Horn Antenna: Electro-Metrics Model RGA-180, 1-18 GHz, S/N 2319
7.___18-26.3GHz Systron Donner Standard Gain Horn #DBE-520-20
8.___Horn 40-60GHz: ATM Part #19-443-6R
9.___Line Impedance Stabilization Network: Electro-Metrics Model ANS-25/2, S/N 2604 Cal. 2/9/00
10.___Temperature Chamber: Tenney Engineering Model TTRC, S/N 11717-7
11.___Frequency Counter: HP Model 5385A, S/N 3242A07460 Cal 10/6/99
12.___Peak Power Meter: HP Model 8900C, S/N 2131A00545
13._X_Open Area Test Site #1-3meters Cal. 12/22/99
14.___Signal Generator: HP 8640B, S/N 2308A21464 Cal. 9/23/99
15.___Signal Generator: HP 8614A, S/N 2015A07428
16.___Passive Loop Antenna: EMCO Model 6512, 9KHz to 30MHz, S/N 9706-1211 Cal. 6/10/00
17.___Dipole Antenna Kit: Electro-Metrics Model TDA-30/1-4, S/N 153 Cal. 11/24/99
18.___AC Voltmeter: HP Model 400FL, S/N 2213A14499 Cal. 9/21/99
19.___Digital Multimeter: Fluke Model 8012A, S/N 4810047 Cal 9/21/99
20.___Digital Multimeter: Fluke Model 77, S/N 43850817 Cal 9/21/99
21.___Oscilloscope: Tektronix Model 2230, S/N 300572 Cal 9/23/99

TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of TIMCO ENGINEERING, INC.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-1992 using a HEWLETT PACKARD spectrum analyzer with a preselector. The bandwidth of the spectrum analyzer was 100 kHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100KHz and the video bandwidth was 300KHz. The ambient temperature of the UUT was 80oC with a humidity of 76%.

TEST PROCEDURE CONTINUED

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Preselector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz)	METER READING + ACF = FS
33	20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

ANSI STANDARD C63.4-1992 10.1.7 MEASUREMENT PROCEDURES: The unit under test was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The table used for radiated measurements is capable of continuous rotation.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSIC63.4-1992 with the EUT 40 cm from the vertical ground wall.

APPLICANT: YAESU MUSEN CO., LTD.

FCC ID: K66FT-817

NAME OF TEST: RADIATION INTERFERENCE

RULES PART NUMBER: 15.109

REQUIREMENTS:
30 to 80 MHz: 40.0 dBuV/M @ 3 METERS
88 to 216 MHz: 43.5 dBuV/M
216 to 960 MHz: 46.0 dBuV/M
ABOVE 960 MHz: 54.0 dBuV/M

TEST RESULTS: A search was made of the spectrum from 30 to 1000 MHz and the measurements indicate that the unit DOES meet the FCC requirements.

TEST DATA:

TUNED FREQ. MHz	EMISSION FREQUENCY MHz	METER READING @ 3m dBuV	COAX LOSS dB	A.C.F. dB	FIELD STRENGTH dBuV/m@3m	MARGIN dB	ANT.
33 TO 56 MHz BAND							
43.00	222.60	9.50	1.20	12.58	23.28	22.72	V
55.00	123.30	5.60	0.80	10.72	17.12	26.38	V
55.00	246.60	12.10	1.20	13.28	26.58	19.42	H
FM BAND							
88.10	98.80	27.40	0.80	8.81	37.01	6.49	V
88.10	197.60	9.00	0.90	12.86	22.76	20.74	V
88.10	296.40	4.80	1.40	15.47	21.67	24.33	V
98.30	109.00	24.70	0.80	8.38	33.88	9.62	V
98.30	218.00	7.60	1.20	12.45	21.25	24.75	H
98.30	327.00	8.80	1.40	14.88	25.08	20.92	H
107.90	118.60	22.10	0.80	9.35	32.25	11.25	V
107.90	237.20	7.10	1.20	13.00	21.30	24.70	V
107.90	355.80	6.90	1.40	15.72	24.02	21.98	H
137 TO 154 MHz BAND							
137.90	206.20	8.20	1.20	12.10	21.50	22.00	V
137.90	412.40	6.10	1.60	17.29	24.99	21.01	V
153.50	221.80	8.70	1.20	12.56	22.46	23.54	V
153.50	443.60	6.70	1.60	18.00	26.30	19.70	H
SCANNER BAND							
421.00	489.30	9.10	1.60	19.05	29.75	16.25	H
421.00	978.60	8.30	2.90	25.26	36.46	17.54	V
445.00	513.30	9.10	1.60	19.41	30.11	15.89	H
445.00	1026.60	8.40	1.00	24.11	33.51	20.49	V
469.00	537.30	6.10	1.60	19.60	27.30	18.70	H
469.00	1074.60	8.80	1.00	24.30	34.10	19.90	V

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NAME OF TEST: RADIATION INTERFERENCE

SAMPLE CALCULATION: FSdBuV/m = MR(dBuV) + ACFdB.

TEST PROCEDURE: ANSI STANDARD C63.4-1992 using a Hewlett Packard Model 8566B spectrum analyzer, a Hewlett Packard Model 85685A Preselector, a Hewlett Packard Model 85650A Quasi-Peak adapter, an Electro-Metric Dipole Kit, and an Eaton Model 94455-1 Biconical Antenna. The bandwidth of spectrum analyzer was 100 kHz with an appropriate sweep speed. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported. The receiver was put into the coherant mode by placing an antenna driven by a signal generator off site.

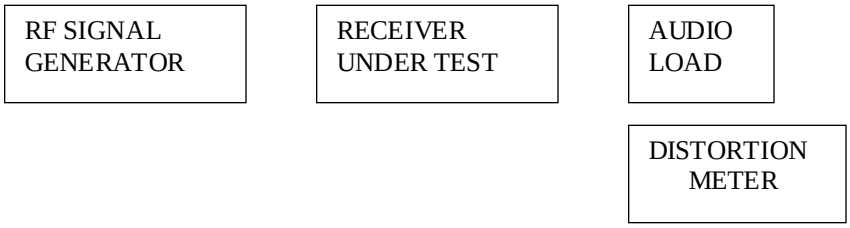
PERFORMED BY: MARIO R. DE ARANZETA DATE: AUGUST 25, 2000

APPLICANT: YAESU MUSEN CO., LTD.
FCC ID: K66FT-817
NAME OF TEST: 38dB REJECTION RATIO

RULES PART NUMBER: 15.121(b)

REQUIREMENTS: 38dB REJECTION RATIO TO SENSITIVITY OF OF THE RECEIVER.

TEST SET-UP



TEST PROCEDURE: The reference sensitivity was measured in accordance with TIA/EIA-603;

a. Equipment connected as illustrated

b. A standard signal was applied to the receiver input terminals.

c. Receiver output audio output was adjusted for rated output.

d. The RF Signal generator was adjusted to the lowest level to produce a 12dB SINAD without the audio output dropping more than 3dB. Make note of sensitivity level.

e. This was done across the different bands to establish a reference level. The reference taken was the worse case sensitivity.

f. The output of the signal generator was then adjusted to a level of 60dB above the reference level at a frequency of 824.5MHz.

g. With the level set 60dB above the level measured in step e,

h. Set squelch on receiver to threshold, The signal level required to open the squelch must be lower than the level measured in step d.

i. Cause the receiver to scan or step-it through its complete
range of frequencies.

j. If receiver stops or unsquelches on any frequency, record the frequency and then adjust the level until a 12dB SINAD is produced. This level must be greater than 38dB above the level in step e.

k. Repeat steps f thorugh j for frequencies 836.0, 848.5, 869.1, 881.0, & 893.5MHz.

TEST RESULTS: The UUT meet the 38dB REJECTION RATIO.

PERFORMED BY: MARIO R. DE ARANZETA DATE: AUGUST 25, 2000